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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/673,628	12/08/2000	Masato Higashi	43890-448 3423		
7590 09/09/2004			EXAMINER		
Mcdermott Will & Emery 600 13th Street NW			RIMELL, SAMUEL G		
Washington, DC 20005-3096			ART UNIT	PAPER NUMBER '	
			2175		

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Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application N	0.	Applicant(s)	700		
Office Action Summary		09/673,628		HIGASHI, MASATO			
		Examiner		Art Unit			
		Sam Rimell		2175			
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9) The specification is objection 10) The drawing(s) filed on Applicant may not request Replacement drawing should be a subjection The oath or declaration	is/are: a) at that any objection to the eet(s) including the corr	ccepted or b) concepted or b) concepted or being concepted or b) concepted or b	eld in abeyance. See the drawing(s) is obje	37 CFR 1.85(a). ected to. See 37 CFR 1			
Priority under 35 U.S.C. § 119							
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U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04) Application/Control Number: 09/673,628

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<u>Preliminary Note:</u> This office action includes new grounds of rejection which are based on prior art not previously of record. Accordingly, this office action is made non-final.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-8 and 10-12 are rejected under 35 U.S.C. 102(e) as being anticipated by Machida (U.S. Patent 6,209,606).

Claim 1: FIG. 1 illustrates a computer system. The computer system is composed of a plurality of disk devices (30-1 through 30-n). FIGS. 6-7 illustrate an updating program that updates firmware from a reference disk to a replaced disk. Step S5 of FIG. 6 is further detailed in FIG. 7, and shows that that the updating of firmware is performed after the a parameter (version number) of the reference disk is compared to a version number of the replaced disk (steps S15-S17). If the version number of the reference disk is higher, the firmware is updated to the replaced disk (steps S5 through S8 of FIG. 6).

<u>Claim 2</u>: FIGS. 6-7 illustrate method steps for updating firmware in a system having a plurality of disk devices (FIG. 1, disks 30-1 through 30-n). Step S1 is the starting step. Step s& involves transmitting the firmware update from the first memory of one of the disk devices (the memory of the reference disk) to a second memory (transfer buffer 107). The second step involves transmitting the firmware update from the second memory (transfer buffer 107) to the

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updated disk (replaced disk). The second memory can further receive additional updated firmware when additional disks are to be updated.

<u>Claim 3:</u> As seen in FIG. 5, each disk has stored specific information.. This specific information includes a model name (Type A), and revision number showing a version of the firmware (version number 0003, for example). As seen in step S16 in FIG. 7, the programming assures that the latest revision number is applied to the replaced disk. The actual transmission of the latest revision is accomplished at steps S7-S8 in FIG. 6.

Claim 4: As seen in FIG. 5, the specific information for each disk includes a model name (Type A) and version number (version number 0003, for example). In following the steps of FIGS. 6-7, the reference disk will have a different revision number than the replaced disk. At the same time, model numbers of the disks may be the same (FIG. 5 and col. 8, lines 36-37).

<u>Claim 5:</u> See remarks for claim 4. Note that version numbers fall within a revision number range from 0001 to 0003 (See FIGS. 8A-8D which illustrates the ranges of revision numbers).

<u>Claim 6:</u> See remarks for claim 4. Note that the updated firmware will have the latest revision number (steps S15 through S17 of FIG. 7) as well as be within a range of revision numbers (FIGS. 8A-8D).

<u>Claim 7:</u> The program steps of FIGS. 6-7 are invoked when the system is on.

<u>Claim 8:</u> FIG. 1 illustrates a computer system/ FIGS. 6-7 is an update program for updating firmware of the disk devices. The disk themselves define first memory. The buffer (107) is second memory. The updated firmware is transmitted from the reference disk to the

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second memory (buffer memory 107) and then from the second memory (buffer memory 107) to a replaced disk.

<u>Claim 10:</u> As seen in FIG. 7, the system compares a parameter (version number) of the reference disk to a parameter (version number) of the replaced disk. If the version number of the reference disk is higher, the version on the reference disk is transmitted to the replaced disk.

Claim 11: See remarks for claim 10.

<u>Claim 12:</u> The second memory is the transfer buffer 107 shown in S7 of FIG. 6 and stores the firmware while it is being transferred to the replaced disk.

Remarks

Applicant's arguments are moot in light of the new grounds of rejection. This office action is made non-final.

Any inquiry concerning this communication should be directed to Sam Rimell at telephone number (703) 306-5626.

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Art Unit 2175